

A9
cancel.

transmitting a first signal from the first reflection unit to the radar, the signal corresponding to a first distance;

receiving the signal from the radar by a second reflection unit;

transmitting a second signal from the second reflection unit to the radar, the second signal corresponding to a second distance; and

adjusting the alignment of the radar in accordance with the first signal and the second signal.

REMARKS

Claims 1-48 are pending. By this Amendment, claim 41 is cancelled, claims 1, 2, 12, 14, 16, 20, 29, 31, 32, 39, 40 and 48 are amended.

The attached Appendix includes marked-up copies of each rewritten claim (37 C.F.R. §1.121(c)(1)(ii)).

I. The Claims Satisfy the Requirements of 35 U.S.C. §112, Second Paragraph

The Office Action rejects claims 1-48 under 35 U.S.C. §112, second paragraph. Claims 1, 2, 12, 14, 16, 20, 29, 31, 40 and 48 have been amended to obviate these rejections.

Furthermore, the claims have been amended to recite "transmit" only.

With respect to claim 41, this rejection is moot.

The Office Action objects to the use of the word "intensity". This rejection is respectfully traversed. As is clear in the specification intensity means signal strength.

II. The Claims Define Patentable Subject Matter

The Office Action rejects claim 40 under 35 U.S.C. §102(b) over USP 3,018,478 to Skillman et al. This rejection is respectfully traversed.

Skillman does not disclose a radar mount direction alignment device including a signal used to align a transmit/receiver direction of a radar device. Instead, Skillman

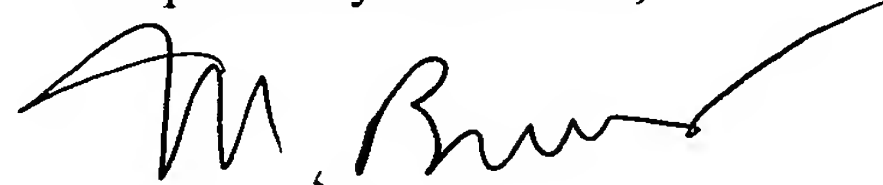
provides a radar target simulator apparatus for simulating a moving target measuring range and velocity.

III. Conclusion

In view of the foregoing, Applicant respectfully submits that this application is in condition for allowance. Favorable consideration and prompt allowance are earnestly solicited.

Should the Examiner believe that anything further would be desirable in order to place this application in even better condition for allowance, the Examiner is invited to contact Applicant's undersigned representative at the telephone number listed below.

Respectfully submitted,



James A. Oliff
Registration No. 27,075

Michael Britton
Registration No. 47,260

JAO:MB/jfl

Attachment:
Appendix

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OLIFF & BERRIDGE, PLC
P.O. Box 19928
Alexandria, Virginia 22320
Telephone: (703) 836-6400

<p>DEPOSIT ACCOUNT USE AUTHORIZATION Please grant any extension necessary for entry; Charge any fee due to our Deposit Account No. 15-0461</p>



APPENDIX

Changes to Claims:

Claim 41 is canceled.

The following is a marked-up version of the amended claims:

1. (Amended) A radar mount direction alignment device ~~to be used for aligning~~
a transmit/receive direction of a radar device mounted on a member on which the radar
device is ~~to be~~ mounted, the device comprising:

a receiving section for receiving a signal ~~emitted~~ transmitted from the radar device;

a transmission section for transmitting a signal to the radar device; and

first means for transmitting, toward the radar device, a signal which, when the signal
~~emitted~~ transmitted from the radar device is received, behaves as if having been reflected
from a reflection target disposed at a position farther from the radar device than a distance
between the radar device and the radar mount direction alignment device.

2. (Amended) A radar mount direction alignment device for aligning a
transmit/receive direction of a radar device mounted on a member on which the radar device
is mounted, the device, further comprising:

a receiving section for receiving a signal transmitted from the radar device;

a transmission section for transmitting a signal to the radar device; and

~~second~~ means for providing a predetermined delay time for the signal received by the
receiving section.

12. (Amended) A radar mount direction alignment method for aligning a
transmit/receive direction of a radar device, the device being mounted on a member on which
a radar unit is ~~to be~~ mounted, the device having a relative angle sensor for sensing a relative
angle with reference to a target, the method comprising:

disposing a transmission section at a predetermined position;

detecting an angle relative to the transmission section by the relative angle sensor;
detecting an angle relative to the receiving section detected by the relative angle sensor; and

aligning the transmit/receive direction of the radar device in accordance with the angle relative to the transmission section the angle relative to the receiving section.

14. (Amended) A radar mount direction alignment method of aligning a transmit/receive direction of a radar device, the device being mounted on a member on which a radar unit is ~~to be~~ mounted, the device having a signal intensity sensor for receiving a signal reflected from a target and detecting the intensity of the receiving signal, the method comprising:

placing a transmission section at a predetermined position;
detecting the intensity of the signal by the signal intensity sensor; and
aligning a transmit/receive direction of the radar device in accordance with the intensity of a signal transmitted from the transmission section.

16. (Amended) A radar mount direction alignment method of aligning a transmit/receive direction of a radar device, the device being mounted on a member on which a radar unit is ~~to be~~ mounted, the device having a signal intensity sensor for detecting the intensity of a signal received from the outside, the method further comprising:

placing a plurality of transmission sections each for transmitting branched signals at different predetermined positions;
detecting the intensity of the signal by the signal intensity sensor; and
aligning a transmit/receive direction of the radar device in accordance with the intensity of signals transmitted from the transmission sections.

20. (Amended) A radar mount direction alignment method for aligning a transmit/receive direction of a radar device, the device being mounted on a member on which

a radar unit is ~~to be~~ mounted, the device having a relative angle sensor for detecting a distance relative to a target, the method comprising:

disposing a reflection target at a predetermined location;
detecting an angle relative to the reflection target by the relative angle sensor; and
aligning the transmit/receive direction of the radar device in accordance with the angle relative to the reflection target.

29. (Amended) A radar device ~~having comprising~~:

_____ a reflection sensitivity sensor for detecting the intensity of a signal reflected from a target; ~~and~~

_____ a relative distance sensor for detecting a distance relative to the target; ~~and, the radar device comprising~~:

a detection sensitivity difference calculation device for calculating a difference in the sensitivity in detection of the intensity of a reflected signal which is susceptible to the influence of a distance, on the basis of a distance relative to the target detected by the relative distance sensor.

31. (Amended) A radar mount direction alignment method for aligning a transmit/receive direction of a radar device ~~which is~~ mounted on a member on which a radar device is ~~to be~~ mounted, such as a vehicle, and has a beam scanning function, the method comprising:

disposing a receiving section for receiving a signal ~~emitted~~ transmitted from the radar device at a predetermined position; and

detecting a change in the level of a signal received by the receiving section as a result of beam scanning; and

_____ aligning the transmit/receive direction of the radar device in accordance with the change in the level of the signal.

32. (Amended) The radar mount direction alignment method according to claim 31, wherein a signal is ~~emitted~~ transmitted from the radar device toward a center direction of beam scanning.

39. (Amended) The radar mount direction alignment method according to claim 31, wherein an unmodulated transmission wave signal is ~~emitted~~ transmitted from the radar device.

40. (Amended) A radar mount direction alignment device comprising:
a receiving section for receiving a signal; and
a converter for converting the frequency of the signal into a lower frequency, the signal used to align a transmit/receive direction of a radar device.

48. (Amended) A method for adjusting alignment of a mount direction of a radar, the method comprising:

receiving a signal from the radar by a first ~~reflector~~ reflection unit;
transmitting a first signal from the first ~~reflector~~ reflection unit to the radar, the signal corresponding to a first distance;

receiving the signal from the radar by a second ~~reflector~~ reflection unit;
transmitting a second signal from the second ~~reflector~~ reflection unit to the radar, the second signal corresponding to a second distance; and

adjusting the alignment of the radar in accordance with the first signal and the second signal.